

Faculty of Cognitive Sciences and Human Development



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2009





July 2009

Faculty of Cognitive Sciences and Human Development

UNIMAS
Universiti Malaysia Sarawak



Postgraduate Programs

Masters and Doctorate Degrees in Cognitive Sciences

Introduction

Cognitive science is the interdisciplinary study of the mind and the nature of intelligence. Researchers in cognitive science come from a wide range of background including computer science, education, philosophy, psychology, neuroscience, and others. Scholars in this field share a common goal of having a better understanding of

human cognition. Therefore, both natural intelligence in humans and artificial intelligence in computers are central themes explored by scholars in this field. Cognitive science involves aspects of complex cognition, computational models of thought processes, knowledge representation, and the emergent behavior of large-scale interacting systems. At the most

basic level, cognitive science seeks a better understanding of the mystery of the human mind, the processes and tools of teaching and learning, of mental abilities, and of the development of intelligent devices that can augment human capabilities in constructive ways.

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Deputy Deans

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Heads of Department

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Human Resource Development

Dyg Nailul Munna Abang Abdullah

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Postgraduate Degrees by Research in Cognitive Sciences



duct research independently and cultivate a deeper understanding in the focused area. The research degree requires students to conduct a research on a specific topic and produce a full dissertation at the end of their studies. Students in

The Faculty of Cognitive Sciences and Human Development offers programs leading to Doctorate and Masters degrees by Research in Cognitive Sciences (full time or part time). The postgraduate programs provide research skills and training to students who wish to build their career in academic and industries. The research intends to build students' abilities to con-

this program will work under the supervision of a main supervisor and/or a co-supervisor for a duration of 3 to 6 years for a Doctoral degree and 2 to 4 years for a Master degree by research. The faculty focuses on vast array of research in cognitive sciences where student is expected to work in one of the following research areas:

Cognitive Psychology

Philosophy

Human Information Processing

Cognitive Application in Industrial/Organizational Psychology

Cognitive Neuroscience

Intelligent System

Computational Intelligence

Neural Computing

Computer Vision

Augmented/Virtual Reality

Learning Sciences

Cognition & Learning

Integration of Technology in Teaching & Learning

Cognitive Ergonomics

Interaction Design

Human Machine Interaction

Universal Design



Entry Requirements:

Master's Program:

A Bachelor degree from a recognized local/foreign university with a minimum CGPA of 3.0, Second Class Upper Honors, or equivalent in a field relevant to the candidate's area of research.

PhD Program:

A good Master's degree from a recognized local/foreign university in a field relevant to the candidate's area of research.

Application procedure: Please refer to the faculty web site at <http://www.fcshd.unimas.my> or the Deputy Dean (Postgraduate & Research)

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Masters and Doctorate Degrees in Human Resource Development

Master of Science in Human Resource Development (HRD) by Coursework

M.Sc in HRD via the coursework mode offers an opportunity to working adults who aspire to gain knowledge in human resource development. Our coursework program is designed to extend knowledge and skills gained from the first degree and to develop new professional skills. This program involves lectures, seminars and project work. A minimum of 42 credits of study and a final Cumulative Grade Point Average (CGPA) of at least 3.0 is required for the award of the Master degree.

Entry requirements:

The minimum entry requirements for the program are as follows:

- A recognized Bachelor degree with a minimum CGPA of 3.0 and above; or
- A recognized Bachelor degree with a minimum CGPA of 2.75 with at least two (2) years of relevant working experience; and
- For International Students, an IELTS Score of 5.5 or its equivalent.

Fees:

The full fee for this program is RM17,000 for Malaysian students and RM24,000 for international students.

For further information about the program, please contact:

Sopian Bujang, Ph.D
(Program Coordinator)
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bsopian@fcs.unimas.my

Master of Science in Human Resource Development by Research

M.Sc in HRD via the research mode is designed to develop the capabilities of students in studying critical issues that exist in the areas of human resource development. Outcomes of this research are expected to contribute to the knowledge and practice in the field of human resource development. This program requires a student to conduct research on a specific topic under the supervision of a supervisor.

Doctor of Philosophy in Human Resource Development by Research

This program is designed to make a significant contribution to the knowledge in the field of human resource development. Outcomes of this research must improve and strengthen existing theories, develop new theories and increase the robustness of research methodology, as well as to be useful to practitioners. At the end of this program, a student is expected to produce a thesis that meets the standards required of a doctoral research.

The main HRD research areas are as follows:

- Training and Development
- Organizational Development
- Career Development
- Human Resource Practices

Eligibility:

Master's Program:

A Bachelor degree from a recognized local/foreign university with a minimum CGPA of 3.0, second class upper honors, or equivalent in a field relevant to the candidate's area of research.

PhD Program:

A Master's degree from a recognized local/foreign university in a field relevant to the candidate's area of research.

Duration of Study:

The normal duration of study for a Master's degree (via research) is 2 years full-time or 4 years part-time. For a PhD, it is 3 years and 6 years respectively.

Application:

On-line applications for admission into our postgraduate programs can be made via www.postgrad.unimas.my

Centre for Graduate Studies
Universiti Malaysia Sarawak
94300, Kota Samarahan,
Sarawak, Malaysia
Email: cgs@pps.unimas.my





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Pusat Khidmat Maklumat Akademik
UNIVERSITI MALAYSIA SARAWAK

61889007

July 2009
Undergraduate Programs

Faculty of Cognitive Sciences and Human Development

Introduction to the Faculty

From cognitive psychology, artificial intelligence and virtual reality to human resource development, the Faculty of Cognitive Sciences and Human Development takes a university education and focuses it on challenges and opportunities in the real world. Our impact reaches beyond the boundaries of UNIMAS to benefit Sarawak, Malaysia and the world.

We are the first in South East Asia to recognize the importance of the studies for understanding the mechanisms of the

mind, the nature of intelligence and a sophisticated knowledge of human factors in computers and technology to the growth areas of this millennium. This is encapsulated in the Bachelor of Science (Hons.) - Cognitive Science. Since this program was offered in 1994, our graduates have ventured to the four corners of the world engaging in diverse industries. At the faculty, we have incorporated a cognitive approach to the studies of human resource development in addition to traditional

approaches. We also recognize that our young graduates will face rapid changes. In view of this, we have adopted a student friendly environment through various programs such as mentor-mentee system, e-learning, faculty level convocation fiesta, annual family day, industrial visits and training, and a speaker's corner.

With this, we would like to introduce you to two of our more popular undergraduate programs.

Bachelor of Science (Hons.) - Cognitive Science

Why study cognitive science at UNIMAS?

Cognitive science is a study of the human mind and intelligence. It is an inter-disciplinary field with contributions from psychology, neuroscience, linguistics, artificial intelligence and philosophy. The central purpose of these contributions is to investigate how the human mind and intelligence develop and the applications of this understanding to the development of associated technology.

An understanding of the mechanisms of the mind together with the nature of intelligence and a sophisticated knowledge of human factors in computers and technology are among the major growth areas in this new millennium. UNIMAS is the first university in

South East Asia to take advantage of these growth areas by offering an undergraduate degree in cognitive science. Supported by qualified academic staff in diverse disciplines of cognitive science, the faculty is poised to deliver a conducive learning environment to its students.

Career benefits

Students graduate with

- a sophisticated knowledge of human psychology and its applications in enhancing human performance and productivity;
- the ability to develop an intelligent system through a systematic system development process;
- the ability to apply the concepts of ergonomics and psychology in the designs of consumer products and software; and

- the ability to think critically, exercise independent judgment and evaluate complex information and ideas.

Employment prospects

Students graduate with the following initial career choices

- software designer/developer
- systems or web interface designer
- systems support specialist
- systems analyst or administrator
- human factors specialist
- consumer product designer
- academician/educator
- instructional designer

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Bachelor of Science (Hons.) - Human Resource Development

Why study Human Resource Development at UNIMAS?

Each organization needs human resources that are effective, competent, proactive and responsive to any changes that occur around them, as human resource determines the success or failure of an organisation. Our human resource development programme is designed to produce human resource professionals who can assist organisations transform its human capital in realising its policies and strategies. It is also aimed at producing innovative and adaptive human resource professionals in maximizing the effectiveness of human potentials in an organisation. Students will be taught and mentored so that they are able to perform fundamental human resource functions in attaining an organisation's

mission and vision. In the pursuit of achieving the above objectives, students are exposed to various disciplines including the aspect of cognition and use of technology to assist in improving human potentials in an organisation. This programme, which is forward looking, is based on market needs and focuses on future HRD professionals who are capable and adaptable in current and future organisations.

Career Benefits

Students graduate with

- a sophisticated knowledge of human resource development – training & development, career development and organizational development;
- a sophisticated knowledge of human resource management especially

in human resource planning, performance management, occupational safety and health, quality management, compensation and benefits;

- a sophisticated knowledge of current issues facing human resource practitioners;
- enhanced research skills adaptable to a wide range of professional careers and contexts; and
- the ability to think critically, exercise independent judgment and evaluate complex information and ideas.

Employment prospects

Students graduate with the following initial career options

- training officer/executive
- trainer

- course developer
- human resource executive
- personnel officer
- administrative officer
- learning coordinator
- consultant
- organizational development analyst

For more details on these undergraduate programs, kindly contact:

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